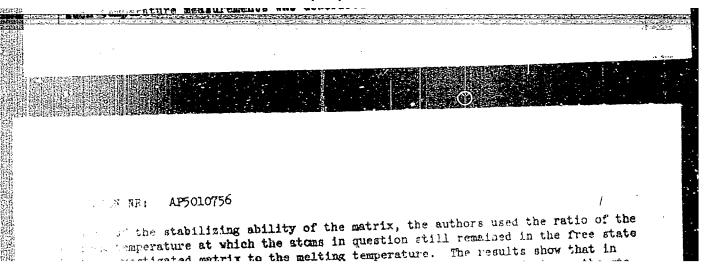
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the 3-cm beam, by a procedure described in the earlier paper. A major he work is the presence of large negative shifts in the studying of the

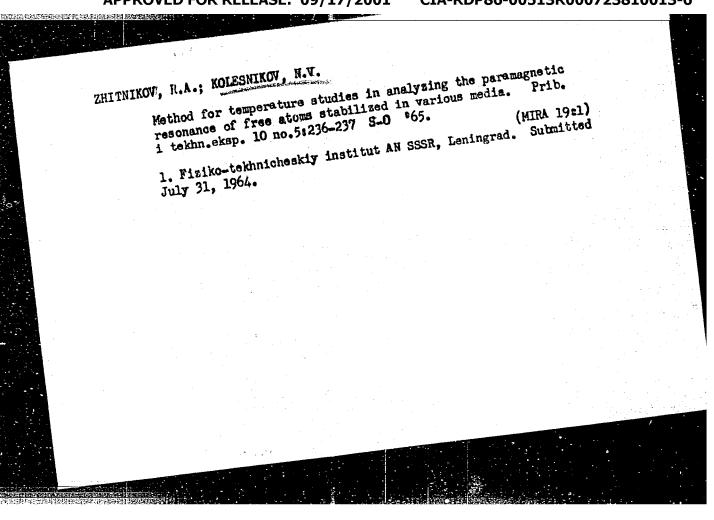
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THE CONTROL OF SWP(E) /BWP(E) - ILL CONTROL UR/0181/65/007/006/1719/1716 APSOLATION NRT APSOLASTO P: Zhitnikov, R. A.; Kolesnikov, N. Y. The Hyperfine structure of paramagnetic resonance spectra of free atoms 4. Au, and Cu stabilized in a benzene matrix at liquid-nitrogen temperatures . TER Fizika tverdogo tela, v. 7, no. 6, 1965, 1719-1716 - TARR silver, mold, copper, hyperfine structure, line splitting, spr spectrometry ..... This is a continuation of sarlier work by the authors (FTT v. 6, to the and preceding papers) and is devoted to the statilization of the s of Ag, Au, and Cu in benzene and to an investmention of their paramag-.... respenses specie, as well as to an application of the theory of F. J. Adrian (J. Chem. Phys. v. 82, 782, 1960) and of U. K. Jen et al. (Phys. Rev. v. 1962) to these substances. The samples were produced by a condenthe method using apporatus and a procedure leadribed earlier (FTE no. 3, 1/2 Card

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# CIA-RDP86-00513R000723810013-6

"APPROVED FOR RELEASE: 09/17/2001 ACC NR. AP7005340 SOURCE CODE: UR/0181/67/009/001/0162/0166 AUTHOR: Zhitnikov, R. A.; Kolesnikov, N. V. ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR TITLE: Theoretical analysis of the matrix shifts of the splittings of the hyperfine structure for the atoms Cu, Ag, and Au, stabilized in a polar matrix (H2O) SOURCE: Fizika tverdogo tela, v. 9, no. 1, 1967, 162-166 TOPIC TAGS: copper, silver, gold, hyperfine structure, line splitting, polar molecule, ABSTRACT: This is a continuation of earlier work (FTT v. 7, 1710, 1965 and earlier) where experimental data were obtained on the hyperfine structure of the ground states of atoms stabilized in polar matrices. The present investigation is devoted to a theoretical interpretation of these data for the atoms Cu, Ag, and Au captured in a matrix of polar H<sub>2</sub>O molecules, and to theoretical estimates of the variation of the hyperfine structure for atoms of the same elements, but stabilized in a nonpolar molecular matrix (CoHa), also carried out by the authors earlier. The present calculations are based on the results of formulas derived in the earlier work. The comparison of the theoretical calculation with the experimental data shows that the matrix shifts in a polar matrix for the Ag and Au atoms can be satisfactorily explained on the basis of theoretical ideas advanced by E. J. Adrian (J. Chem. Phys. Card 1/2

ACC NR: AP7005340

v. 32, 972, 1960) and C. K. Jen et al. (Phys. Rev. v. 126, 1749, 1962). In the case of copper, a slight discrepancy between the theory and the experiment is noted and its causes are discussed. The main conclusion of the work is that the principal part of the variation of the hyperfine structure of the stabilized atoms is not determined by the polarity of the molecules of the matrix. The authors thank I. M. Bend for programming the calculations with the BESM-2 computer of the Academy of Sciences SSSR. Orig. ert. has: 2 figures, 3 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 09Jun66/ ORIG REF: 005/ OTH REF: 007

**Card** 2/2

#### 21393

S/120/61/000/002/003/042 E032/E114

2 f. 68/0 AUTHORS:

Kovrigin, O.D., Kolesnikov, N.V., and Latyshev, G.D.

TITLE:

A large beta-spectrometer with double focussing

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No. 2, pp. 19-25

(First read at the 10th Annual Conference on Nuclear Spectroscopy, Moscow, January 19-27 1960). A description is given of a double-focussing spectrometer having an equilibrium orbit radius of 500 mm. The momentum resolution varies between 0.5 and 0.08% when the relative solid angle is varied between 0.65 and 0.15%. The design of the magnet is illustrated in Fig. 1. The magnet is made of "steel-10". In Fig. 1, 1 is the electromagnet, 2 is the vacuum chamber, 3 is the receiving slit, 4 is the diffusion-pump inlet, 5 is a stilbene crystal, 6 is a light pipe, 7 is a photomultiplier, 8 is a magnetic field meter, 9 is a lead screen, 10 is the source, 11 is a vacuum gauge, 12 is a slit and 13 are auxiliary coils. The diameter of the pole pieces is 1300 mm and the gap at r = 650 mm in 246.3 mm. The profile of the pole pieces and the corresponding radial magnetic field distribution are shown in Fig. 2. Card 1/6

#### 21393

S/120/61/000/002/003/042 E032/E114

A large beta-spectrometer with double focussing

field (P.P. Pavinskiy, Izv.AN SSSR, seriya fiz., 1954, 18, No.2, 175; Ref.2) is reproduced to an accuracy of 5 x 10-4 (curve 2). The final pole profile is given by Table 1. The source and the detector slit can be replaced without releasing the vacuum. The magnetic field can be varied between 10 and 200 oe which corresponds to the focussing of electrons with energies between 20 ky and 2.5 Mev. The magnetic field is stabilized to within ± 10-4. Fig.6 shows the conversion spectrum of Bal37 obtained with the spectrometer: a - solid angle 0.36%; 6 - solid angle 0.51% (K line). The main experimental results obtained with this spectrometer are compared with those obtained by other workers in Table 2.

There are 6 figures, 2 tables and 17 references: 9 Soviet and 8 non-Soviet. Acknowledgements are expressed to L.N. Fedulov, A.V. Zolotavin and Ye.P. Grigor'yev for collaboration and technical assistance.

ASSOCIATION: Institut yadernoy fiziki, AN KazSSR (Institute of Nuclear Physics, AS Kaz.SSR)

Card 2/6

\$/707/62/005/000/008/014 D290/D308

AUTHORS:

Kovrigin, O.D., Kolesnikov, N.V. and Latyshev, G.D.

The preservation of the topography of the magnetic

field in a  $\beta$ -spectrometer

SOURCE:

Akademiya nauk Kazakhskoy SSR. Institut.yadernoy fiziki. Trudy, v. 5. Alma-Ata, 1962. Fizika chastits vysokikh energiy. Struktura yadra, 107-110

The authors give a method of preserving the theoretically required topography of the magnetic field in a double-focussing  $\beta$ -spectrometer while  $H_0$  (the magnetic field in the equilibrium orbit) changes from 10 to 200 oersted (equivalent to  $\beta$ -particle operation of 200 and 500 km). cle energies of 20-2, 500 kev). The quantity  $D = 1 - H_e(300)/H_t(300)$ was measured over the working range of  $H_0$  ( $H_t$ (300) and  $H_e$ (300) are respectively the theoretical and experimental magnetic fields at a radius of 300 mm; (the equilibrium orbit has a radius of 500 mm), and was found to be about  $2 \times 10^{-2}$ ; such values of D would cause considerable instrumental broadening of the lines in  $\beta$ -ray spectra. D

Card 1/2

The preservation of the topography ... S/707/62/005/000/008/014 D290/D308

was reduced to  $\pm$  3 x 10<sup>-4</sup> by placing additional coils at the internal surfaces of the magnet shoes; the current needed to keep D at this value was measured over the working range of H<sub>0</sub>. Hysteresis in the material of the magnet may require the current in the additional coils to be altered slightly. The instrument was used to measure the natural line-widths in the conversion spectra of Th-B and 137Ba. There are 6 figures.

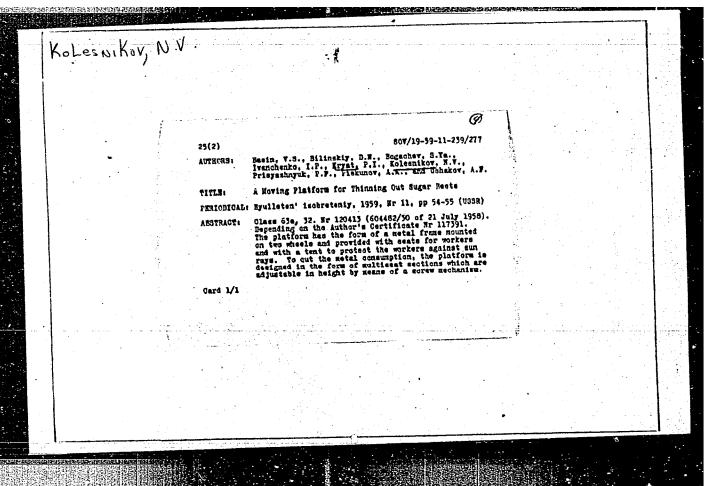
Card 2/2

L 05834-67 ACC NR AF6028098 SOURCE CODE: UR/0229/66/000/004/0028/0030 AUTHOR: Kolesnikov, N. V.; Neymand, Ye. M. لمدو والدسا ويصدي والمنشوات ومنعاط أواليا والمناطع ORG: None TITLE: A noise-free ship tachometer 10 SOURCE: Sudostroyeniye, no. 4, 1966, 28-30 TOPIC TAGS: marine equipment, tachometer ABSTRACT: The authors describe a tachometer developed at the "Vibrator" plant which satisfies the reliability and noise level requirements for ship operation. The tachemeter uses a special electric machine with an arc stator and a rotor which is fixed to the shaft. The stator is fixed next to the shaft at a given distance from the rotor. The rotor does not have any kind of electric contacts or windings but is equipped with permanent magnets. The measured rotation of the shaft is transformed by a threephase synchronous generator into a-c whose frequency is directly proportional to the measured rate of rotation. An expression for this is given. Thus as the rotor mounted on a shaft turns, three-phase a-c voltage is generated in the stator windings which is fed in turn to synchronous electric indicators. Diagrams and specifications for the unit are given. This tachometer satisfies all requirements and is the finest instrument of its kind. Orig. art. has: 5 figures, 2 tables, 6 formulas. SUB CODE: 13/ SUBM DATE: None UDC: 629.12.056.2:5

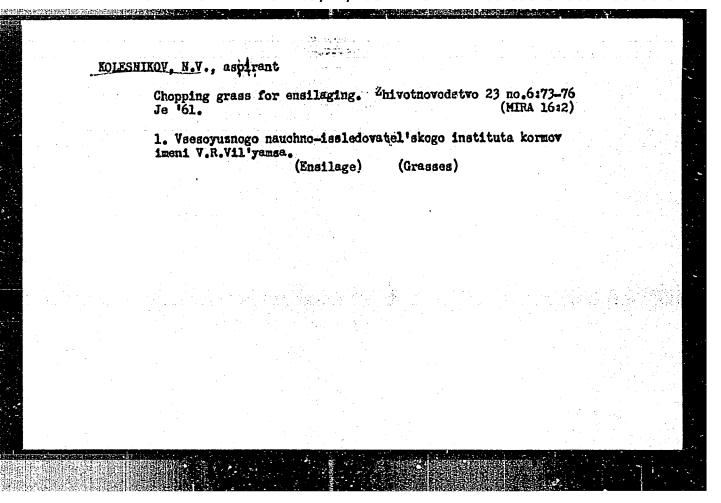
MAGARSHAK, Boris Grigor'yevich; KRASIL'SHCHIKOV, L.B., kand. tekhn. nauk, retsenzent; KOLESNIKOV, N.V., inzh., retsenzent; KITAYENKO, G.I., kand. tekhn. nauk, nauchn. red.; OZEROVA, Z.V., red.

[Marine electrical measuring instruments; a reference book] Sudovye elektroizmeritel'nye pribory; spravochnik. Leningrad, Sudostroenie, 1965. 411 p.

(MIRA 18:8)



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			25(2)	501/19-59-2-43	<b>1</b> 2.400	
			AUTHORS:	Basin, V.S., Bilinskiy, D.H., Bogschev, S.Ya., Ivanohenko, I.P., Kryav, P.I., Kolegnikov, N.V. Kutsuruba, N.F., Prisyarhnyuk, P.F., Grap'yan, N.P., Ushakov, A.F., and Khmelevskiy, N.W.	94/60 <b>0</b>	
			TITLE:	A Versatile Trailing Machine for the Cultivation of Sugar Beets	:	
			PERIODICAL	Byulleten' imporetenty, 1959, Nr 2, p 92 (UDER)	•	•
			Abstract:	Class 45b, 11. Hr 11791 (604401 of 21 July 1950 A machine consists— of a sowing unit, a cultiva and a seedling farther init, designed to be trail by tractor. To extend the versatility and cut the motel needed in the construction of the machine, it is mounted on a single-beam frame with wheels and drive units, and the drives are placed at the ends of the beam. The design permiss successive soming things of the control of the season.	,	
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KOVRIGIN, O.D. P. KOLESNIKOV, N.V.; LATYSHEV, G.D.

Conservation of the magnetic field topography in a beta-ray spectrometer. Trudy Inst. icd. fiz. AN Kazakh. SSR 5:107-110
'62. (MIRA 15:4)

(Magnetic fields) (Beta-ray spectrometer)

KOLESNIKOV, N.V., kand. sel'skokhoz. nauk

Ensilage perennial grasses. Zemledelie 26 no.6:78-79 Je 164. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov.

NIKOLAYEV, Vladimir Ivanovich; KOLESNIKOV, N.V., retsenzent;
EUKHTEYEV, P.I., nauchn. red.; ROZENGAUZ, N.M., red.

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raboty sudovykh energeticheskikh ustanovok. Leningrad,
Sudostroenie. Pt.1. 1965. 239 p. (MIRA 18:5)

LUBOCHKIN, Boris Iosifovich, dotsent, kand.tekhn.nauk; LYSENKO,
Vsevolod Konstantinovich, dotsent, kand.tekhn.nauk; FAYYUSHEVICH,
V.M., retsenzent; KOLESHIKOV, O.G., starshiy prepodavatel,
retsenzent; ALEKSANDROV, L.A., red., Prinimal uchastiye KUDINOV,
N.N., red.; TIKHONOVA, Ye.A., tekhn.red.

[Marine steam boilers and their operation] Sudovye parovye kotly i ikh ekspluatatsiia. Ind-vo "Morskoi transport." 1960. 590 p. (MIRA 14:4)

1. Zamestitel' nachal'nika Leningradskogo Arkticheskogo uchilishcha (for Fayvushevich). 2. Rostovskoye-na-Donu morekhodnoye uchilishcha (for Kolesnikov).

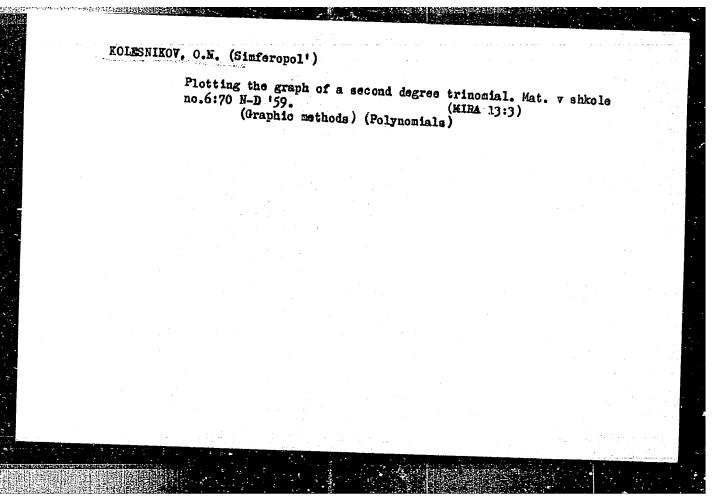
(Boilers, Marine)

KOLESNIKOV, Oleg Grigor vevich; LALAYEV, G.G., inzh., retsenzent; KEPKE, L.M., red.

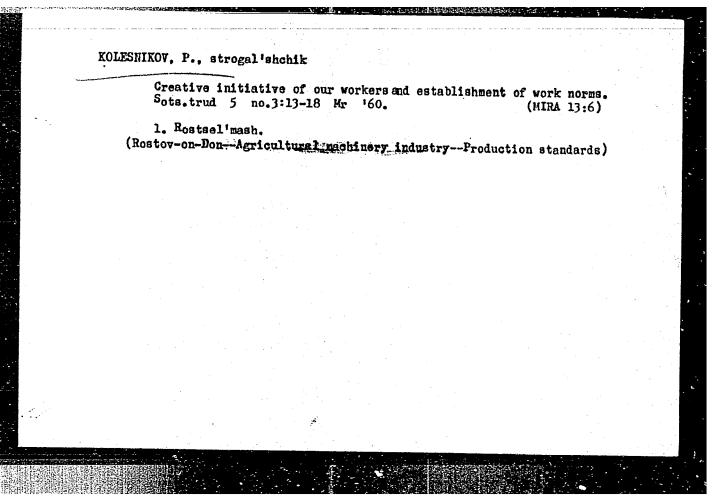
[Auxiliary mechanisms and refrigerating machinery of ships] Sudovye vspomogatel'nye mekhanizmy i kholodil'nye ustanovki. Moskva, Transport, 1964. 525 p. (MIRA 18:4)

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	Apparatus for measuring the pulse. Est. v shkole no.6:82-83	153
	Apparatus for measuring the pulse. Est. v shkole no.6:82-83	(MLRA 6:10)
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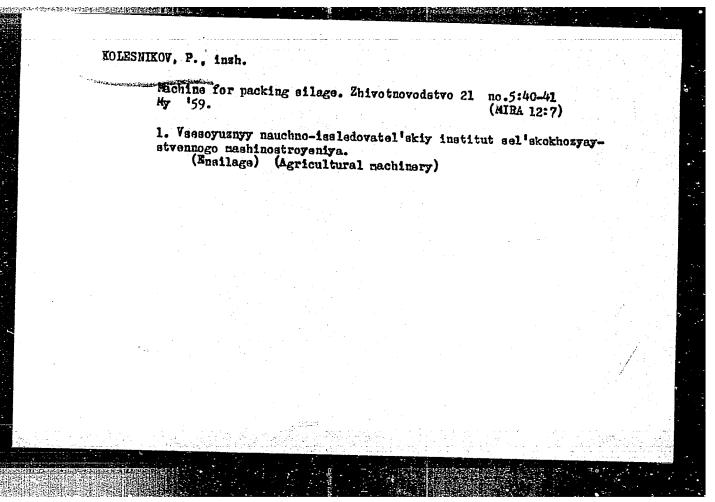


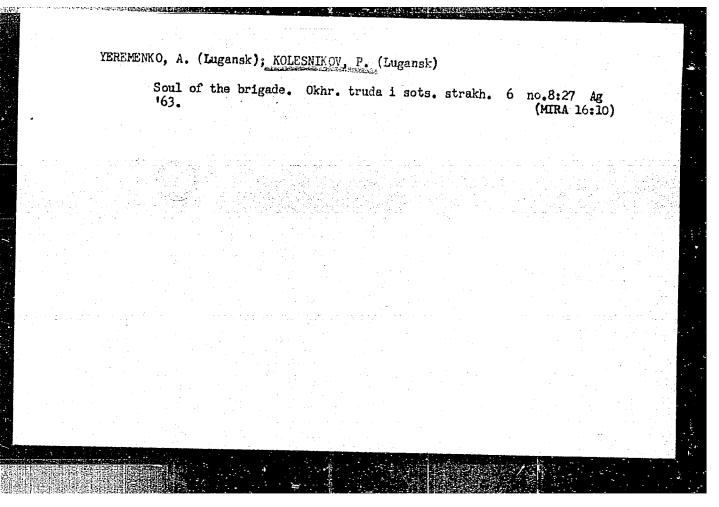
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Noble initiative. Sel'. stroi. 12 no.5:6-8 My '58. (MIRA 11:6)

1. Predsedatel' Shebekinskogo rayispolkoma, Belgorodskoy oblasti.

(Belgorod Province--Farm buildings)





KOLESNIKOV, P.A.

34026 KOLESNIKOV, P.A. Pribor Dlya Izmyeryeniya Natyazhyeniya Osnov-nykh Nityey Tyekstil Prom-st; 1949, No. 10, S. 32-33

SO: Letopis' Zhurnal'nykh Statey, Vol. 42, Moskva, 1949

KOLESNIKOV, P. A.

"Tension of Beam Threads in the Weaving Process and Its Effect on the Physicomechanical Properties and Breaking Quality of These Threads." Thesis of Degree of Cand. Technical Sci. Sub 23 Jan 50, Moscow Textile Inst.

Summary 71, 4 Sep 52, <u>Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1950.

KOLESNIKOV, P.A.

Technology

Equipment, installation, repair, and adjustment of mechanical looms of cotton industry Moskva, Gos. nauchno-tekh. izd-vo legkoi. promysh., 1951

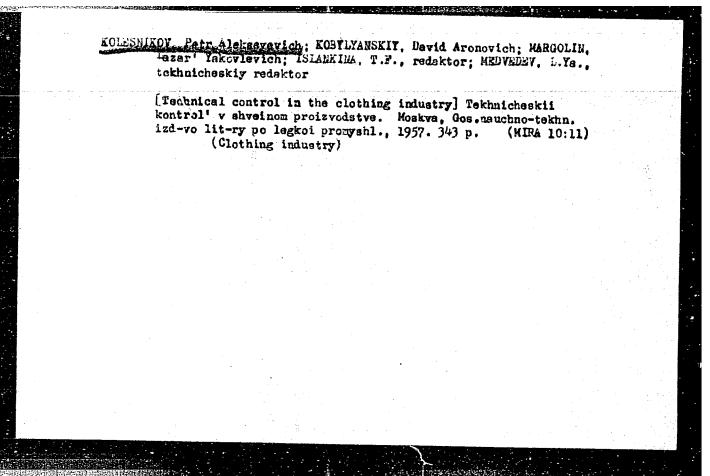
9. Monthly List of Russian Accessions, Library of Congress, August 1953, Uncl.

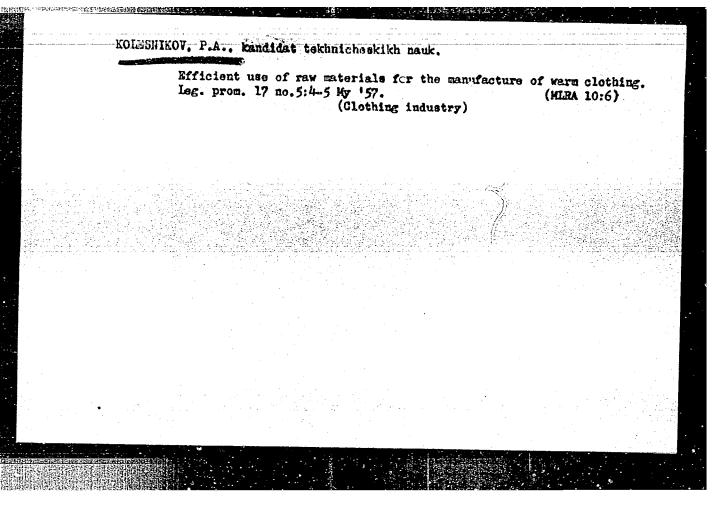
 KOLESNIKOV. P.A., kandidat tekhnicheskikh nauk; SHPAYER, A.M., kandidat tekhnicheskikh nauk.

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1. Vsesoyusnyy nauchno-issledovatel'skiy institut shveynoy promyshlennoxti.

(Textile fabrics—Testing)



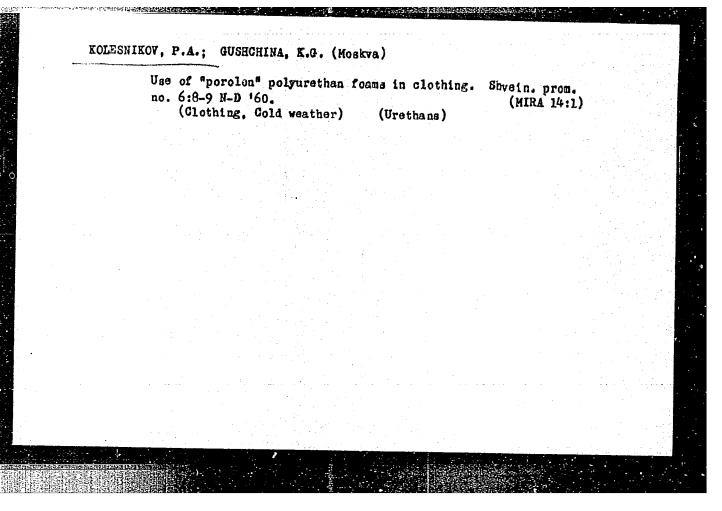


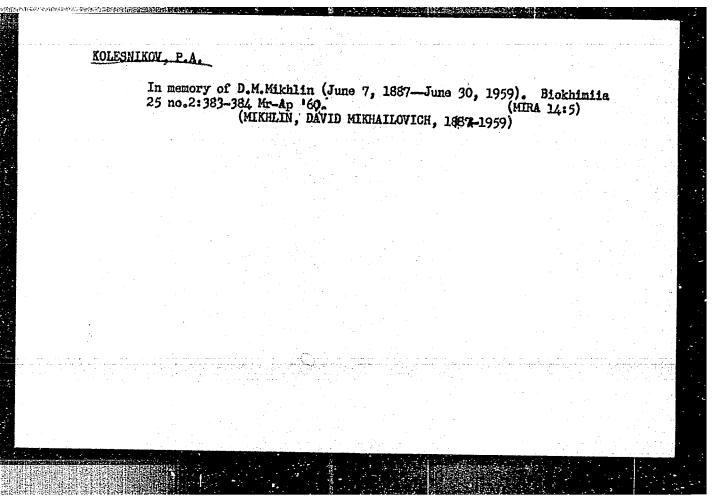
ROIESNIKOV, P.A., kand. tekhn. nauk; PANKOVA, L.N., kand. tekhn. nauk

Practices of the East German clothing industry. Shvein. prom.
no.4:34-36 Jl-Ag '59. (MIRA 13:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut shveynoy promyshlennosti.

(Germany, East--Clothing industry)





FOPKOV, V.I., kand. tekhn. nauk; TER-OVAKIMYAN, I.A.; KOBYLYANSKIY, D.A.;
KOLESHIKOV, P.A.; PERTSEV, G.V.; MARAKUSHEV, Yo.A.; RUSAKOV, S.I.,
Tetsenzent; PLENYANNIKOV, M.N., red.; SHAFENKOVA, T.A., tekhn. red.

[Handbook for the clothing industry worker] Spravochnik shveinika.
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(Clothing industry)

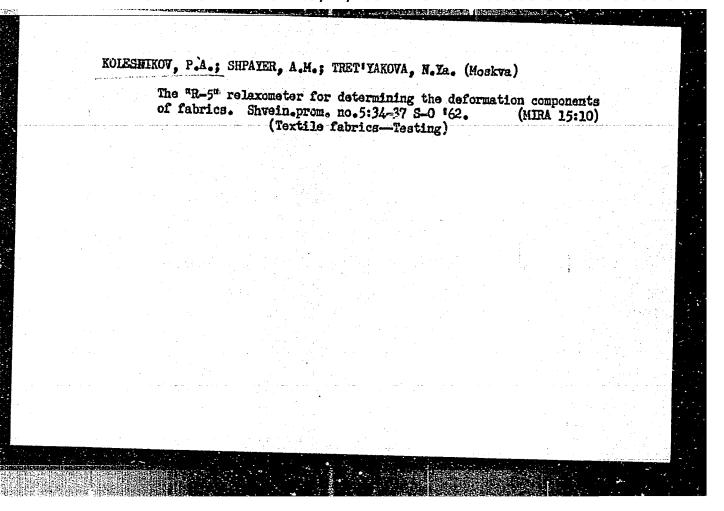
(Clothing industry)

KOLESNIKOV, Petr Alekseyevich, kard. tekhn. nauk; BYKASOVA, G.I.,
inzh., red.; VASIL'YEV, Yu.A., red. izd-va; BELOGUROVA, I.A.,
tekhn. red.

[Efficient principles for the design and manufacture of cold
weather clothing] Ratsional'nye printsipy postroeniia teplozashchitnoi odezhdy; stenogremma lektsii, prochitannoi v
LDNTP na seminare dlia rabotnikov shveinoi promyshlennosti.
Leningrad, 1961. 29 p.

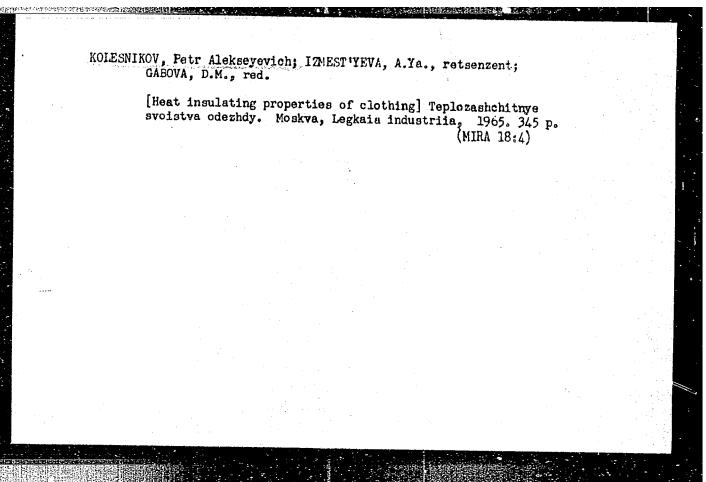
(Clothing, Cold weather)

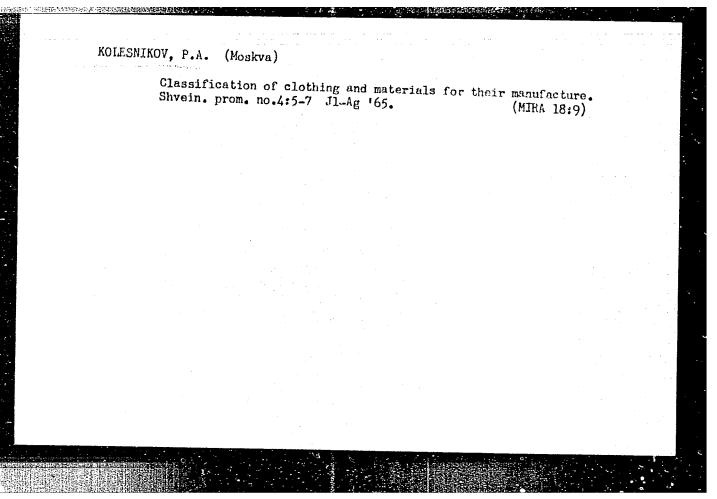
(Clothing, Cold weather)

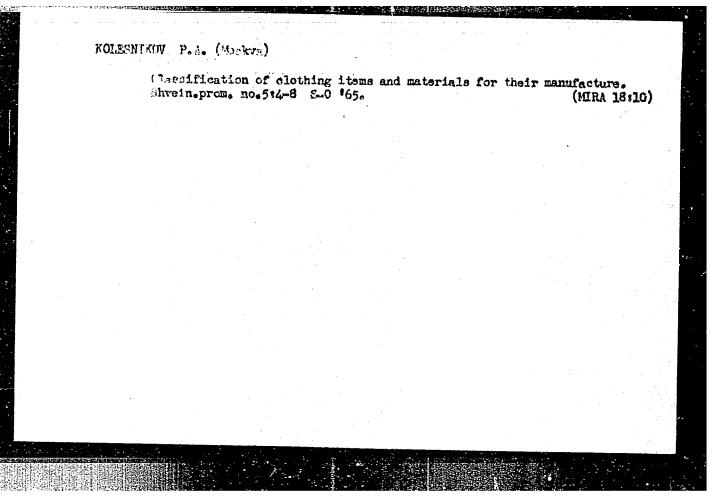


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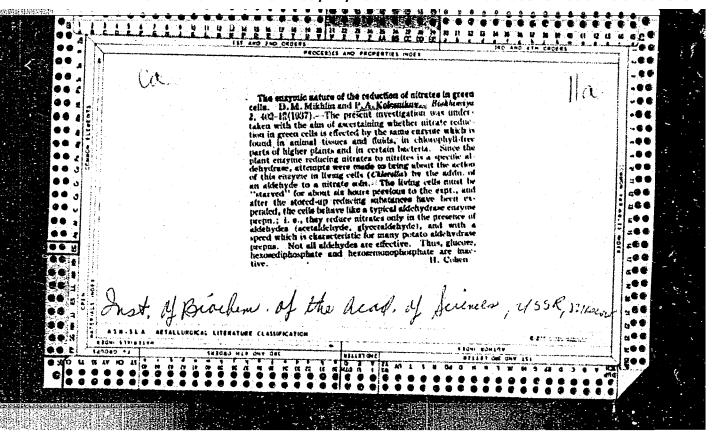


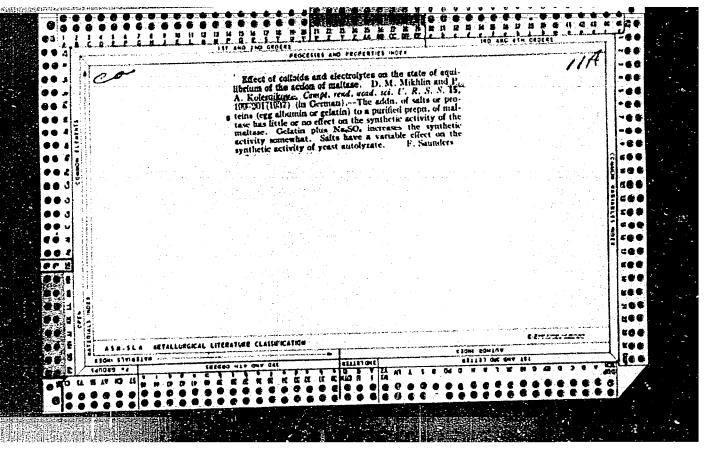


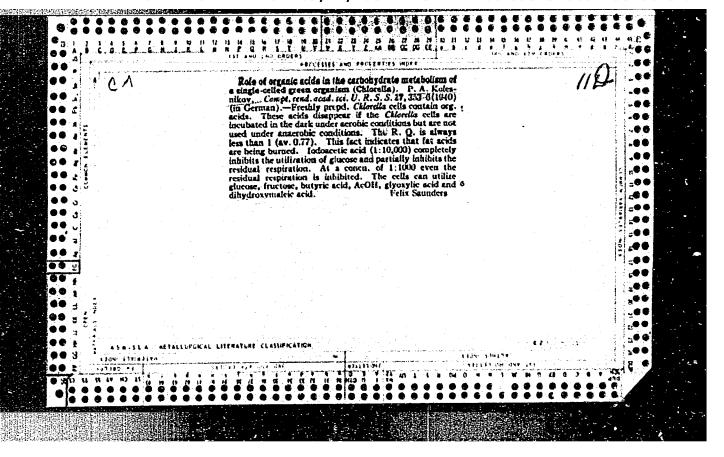
PETROCHENKO, Ye.I.; KOLESNIKOV, P.A.

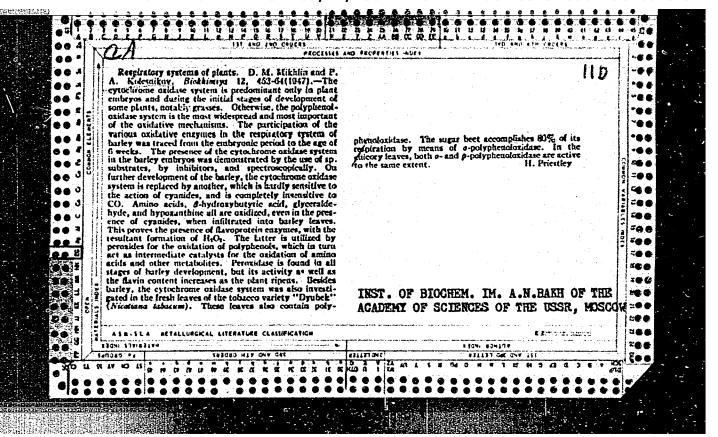
Oxidation of phlorogluoin by wheat aprouts. Biokhimita 29 no.5:889-895 Jl-Ag '64. (MIRA 18:11)

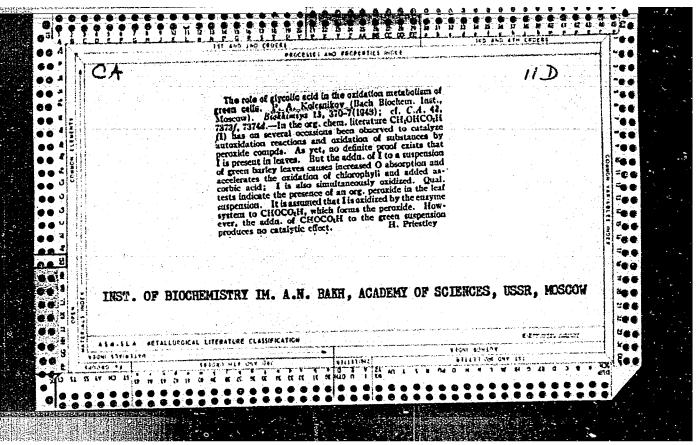
1. Institut biokhimit imeni Bakha AN SSSR, Moskva.





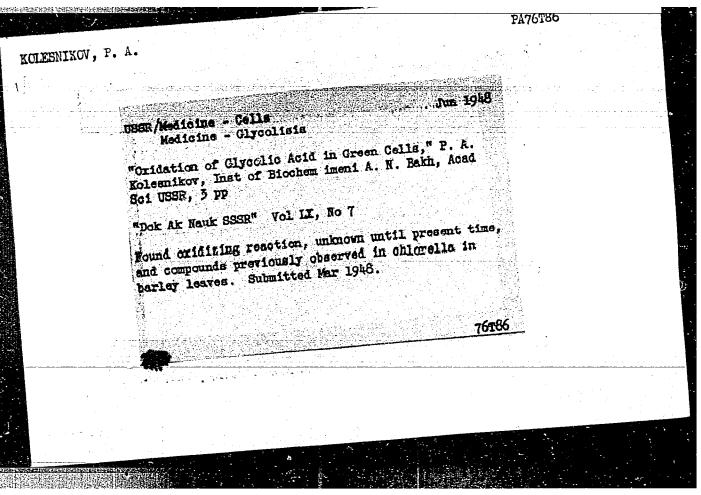






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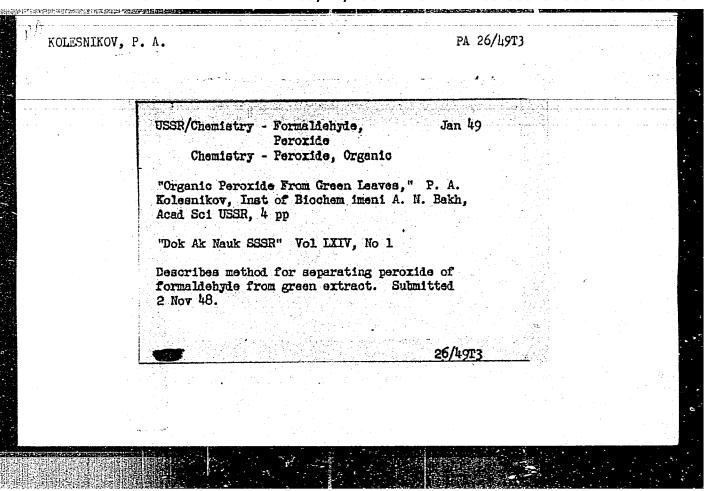
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"The Catalytic Action of Glycolic Acid on the Ori- dation of Chlorophyll in Pulverized Leaves," F. A. Kolesnikov, Inst of Biochem imeni A. N. Bakh, Acad Sci. USSR, 3 pp	
"Dok Ak Nauk SSSR" Vol IX, No 8	
Show that pulverized barley leaves in suspension oridize glycolic acid. Tests determine the effect of centrifuging the suspension on the causes for increased absorption of oxygen by glycolic acid. Submitted by Acad A. I. Oparin 26 Mar 1948.	
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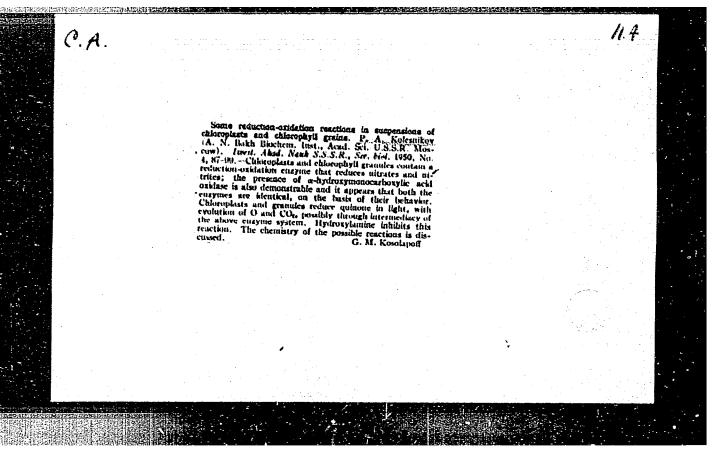
KOLESNIKOV, P. A.

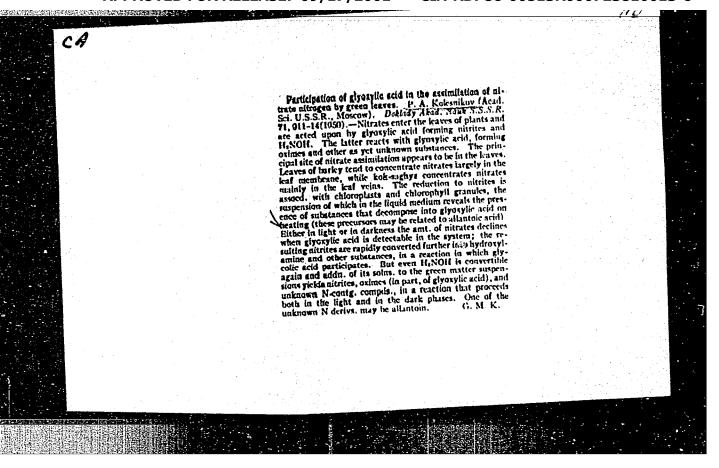
"Conversion of Carbon Compounds in Plant Cells," Iz. Ak. Nauk SSSR, Ser. Biol., No. 3, 1949.

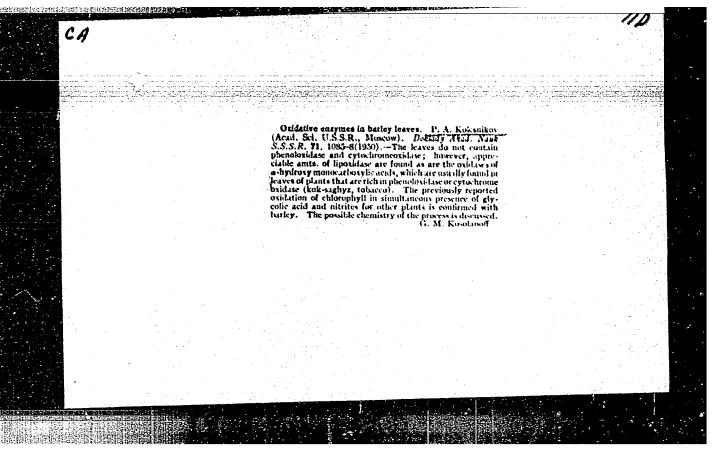
Inst. Biochemistry im. A. N. Bakh, AS USSR

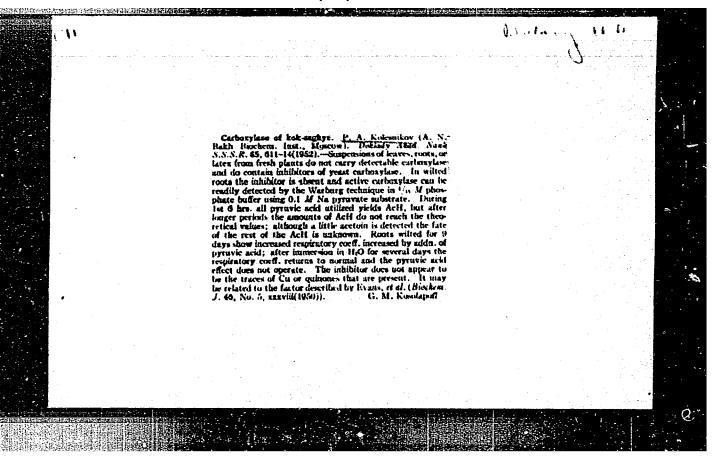
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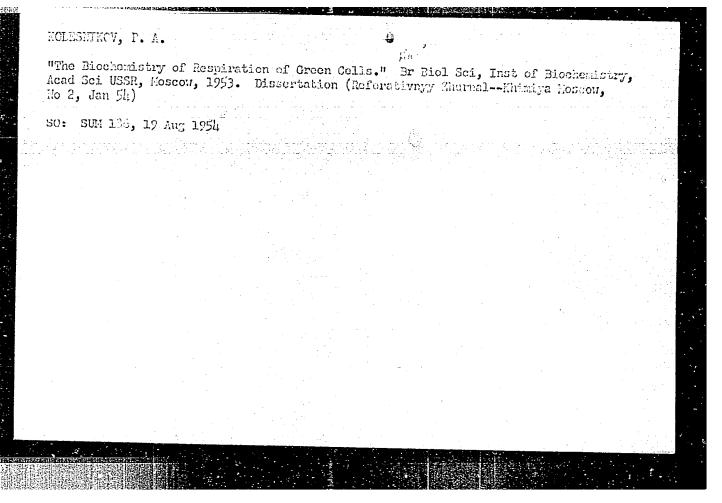




Kok-Saghyz

Quinones and localization of phenolase in kok-saghyz. Dokl. AN SSSR 85 no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

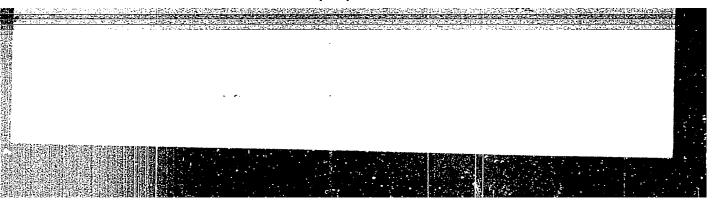


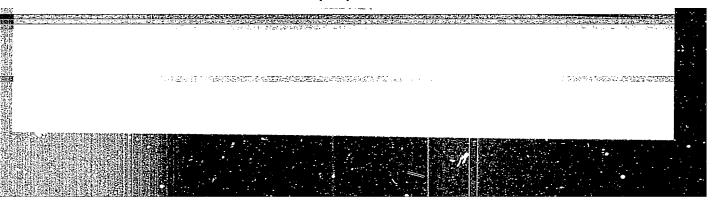
# Constitution of glyoxal in extracts from green leaves. Doklady Akad. Nauk S.S.R. 90, 221-4 153. (GA 47 no.17:8839 153) 1. A.N.Bakh Blochem. Inst., Moscow.

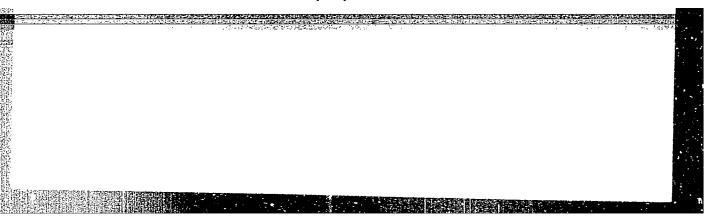
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Olipsedia solid on lesse in green plants. P. A. Kniesmikov, Unpublic Macromonesis Biol. 38, 133-43(1954).—The prosentation of dyselia solid continue in thruse monoconsecutive; the product of cridulture is giveryle soul. The curdiction is ostimblisted by consent anomalies, in a significantly inhibited by indicated by







Quantitative determination of carbonyl componds and secondary and tertiary slochols in small samles of vegetable matter [with summary in English]. Biokhimita 22 no.4:622-625 Jl-Ag '57. (MIRA 10:11)

1. Institut biokhimita in. A.N.Bakha Akademii nauk SSSR, Moskva. (PLANTS--CHEMICAL ANALYSIS) (CARBONYL COMPOUNDS)

(ALCOHOLS)

I-3

# NOLESMINOV, P.A.

USSE Plant Physiology - Respiration and Metabolium.

Abs Jour : Ref Thur - Minl., No 4, 1958, 15193

Author

: Molegnikov P.A.

Incl

: Bischerical Institute, Academy of Sciences USSA

Title

: Distribution of Glycolic Acid Oridans in the Leaves of

Order Pub : Dotal. NAM DECER, 1957, 112, No. 5, 909-310

Abstract : discolid acid oxidate activity in leaves of trees and brushwood plants was determined in Wikita Botanical Garden (in Yelta) in april May of 1956. Oxidese setivity was Grater in the majority of Poliate trees then in conifers. In a few cases the ferment was not discovered because of the intense steining of the extract (japanese aucuba, olives, mediur) or the precipitation of the ferment in rubbing (conifers). This work was carried out in

Card 1/8

><sup>USCA</sup>/ <mark>APPRÖVED FOR RELEASE: 09/ш7//2001 i sm.</mark>CIA-RDP86-00513R000723810013-6

: Ref Thur - Blol., No 4, 1958, 15193 Abo Jour

> the Biochemical Institute of the Academy of defences of the Union of Howlet Dicialia, Republica.

# KOLESUIKOV, P.A.: ZORE, S.V.

Anthocyanin formation in wheat shoots induced by visible and invisible ultraviolet light. Dokl.AN SSSR 112 no.6:1079-1081 F 157. (MLRA 10:5)

1. Institut biokhimii im. A.N. Bakha Akademii nauk SSSR. Predstavleno akademikom A.I. Oparinym.

(Anthocyanins) (Ultraviolet rays--Physiological effect) (Wheat)

KOLESNIKOV, PA.

28-58-2-14/41

AUTHOR:

Kolesnikov, P.A., Candidate of Technical Sciences

TITLE:

The Classification of Consumer Fabrics (Klassifikatsiya

tkaney bytovogo naznacheniya)

PERIODICAL: Standartizatsiya, 1958, Nr 2, pp 42-45 (USSR)

ABSTRACT:

Inconsistencies are pointed out in the existing standard and trade (price list) classification of textiles, and a different classification system is recommended. This system would classify textiles by the use (bedding, skirt-material, shirtmaterial, etc.) and by groups, by the kind of fiber and production processes. It is said that the scientific research organizations must work out standard requirements for proper-

ties and quality of textiles.

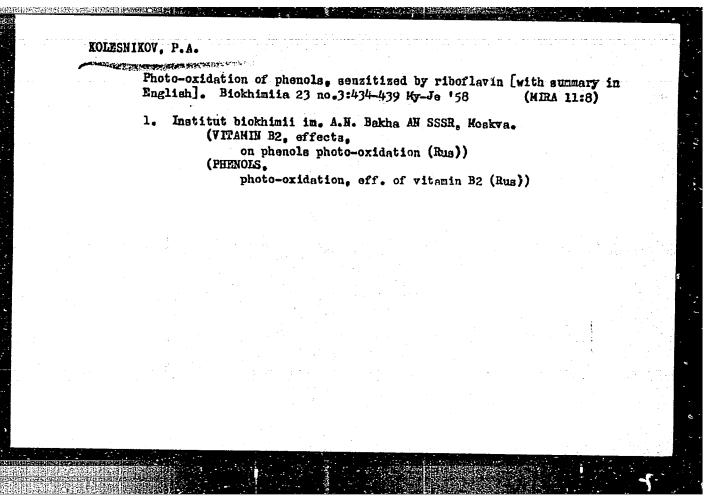
ASSOCIATION: VNII shveynoy promyshlennosti (VNII of the Sewing Industry)

AVAILABLE:

Library of Congress

Card 1/1

1. Textiles-Classification 2. Standardization-USSR



17(3) AUTHORS:

Kolesmikov, P. A., Petrochenko, Ye. I., Zore, S. V.

SOV/20-123-4-44/53

TITLE:

Fermentative Reduction of Quinone by Glycolic Acid (Fermentativnoye vosstanovleniye khinona glikolevoy kislotoy)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4,

PP 729-732 (USSR)

ABSTRACT:

The first mentioned author has found earlier that glycolic acid accelerates the transformation of p-benzoquinone in centrifuged homogenates of barley leaves (Ref 1). It was assumed that glycolic acid reduces p-benzoquinone in the presence of the oxidase of glycolic acid. Besides these two compounds various phenol derivatives are widespread in green plants which can be oxidized to quinone. Possibly, phenols and quinones are components of respiratory systems (Ref 2). The process mentioned in the title is a hardly explained part of these systems. It was therefore interesting to carry out a detailed investigation of the reduction mechanism. For the production of ferment preparations the small leaves of the

Card 1/3

Some assumptions mentioned in publications (Ref 2) are given. Card 2/3

Fermentative Reduction of Quinone by Glycolic Acid SOV/20-123-4-44/53 shoots of barley of the type Wiener (Viner) as well as leaves of Trapezond-type tobacco were used. It was found that aqueous yellow solutions of p-benzoquinone remaining at room temperature turn red. This process is accelerated by increasing pH-values; p-benzoquinone is consumed and smaller quantities of oxygen are adsorbed. In the solution hydroquinone can be detected in first approximation in a quantity that is proportional to the intensity of the red coloration and thep-benzoquinone used but not to the quantity of oxygen a bsorbed. Besides the transformation of p-benzoquinone into hydroquinones some oxidative processes seem to take place in the aqueous solution, which are not taking part in the mentioned transformation. It was found that some preparations synthesized from the green leaves accelerate the transformation just mentioned. The addition of glycolic acid increases this acceleration (Table 1). Since the red color is considerably decreased by the addition of glycolic acid an inhibition of the formation of the colored compounds by the glycolate must be assumed, which is formed in the spontaneous transformation of p-benzoquinone. The methods of the transformation of p-benzoquinone have not been explained experimentally. Some assumptions mentioned in publications (Ref 2) are given.

Card 2/3

Permentative Reduktion of Quinone by Glycolic Acid

SOV/20-123-4-44/53

The red coloration probably comes from polymerization products. According to the authors' opinion the last mentioned inhibition tends to show that the quinone reduction takes place directly at the expense of the hydrogen of the glycolate and of the oxidation energy of the glycolate. Thus, the stage of the formation of oxy-hydroquinone is avoided. This process is proved by the formation of glyoxylic acid besides hydroquinone (Table 1). It may be seen therefrom that the glycolate accelerates the quinone transformation only by such preparations that contain the oxidase of glycolic acid. This takes place the more rapidly the more active this oxidase is. There are 1 table and 4 references, 2 of which are Soviet.

ASSOCIATION: Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute

of Biochemistry imeni A. I. Bakh, Academy of Sciences USSR)

PRESENTED:

July 31, 1958, by A. I. Oparin, Academician

SUBMITTED:

July 29, 1958

Card 3/3

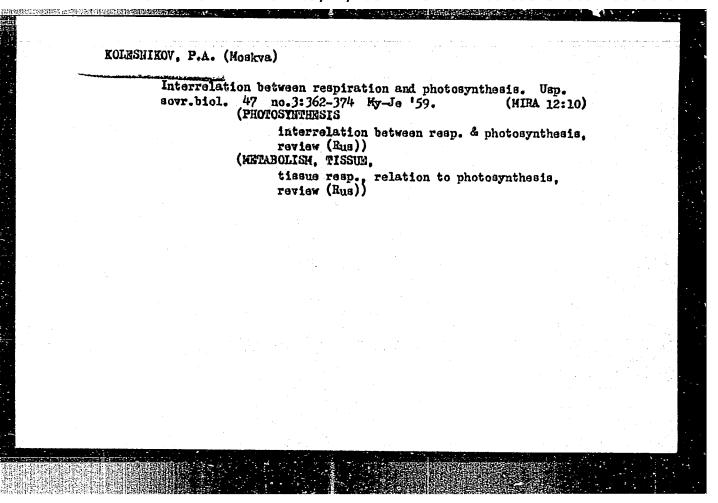
CIA-RDP86-00513R000723810013-6" **APPROVED FOR RELEASE: 09/17/2001** 

KOLESNIKOV, P. A.; PETROCHENKO, Ye.I.; ZORE, S.V.

Interaction of glycolic acid oxidase and polyphenoloxidase.
Fiziol. rast. 6 no.5:598-603 S-0 '59. (MIRA 13:2)

1.A.N. Bath Institute of Biochemistry, U.S.S.R. Academy of Sciences Moscow.

(Glycolic acid oxidase) (Phenolase) (Plants—Metabolism)



17 (3)

AUTHORS: Kolesnikov, P. A. Petrochenko, Ye. I. SOV/20-127-6-43/51

TITLE:

On Free Radicals in the Peroxidase Oxidation and Photooxida-

tion of p-Cresol

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 6, pp 1297 - 1300

(USSR)

ABSTRACT:

The products isolated among the products of the oxidation mentioned in the title (Ref 9), and also those of the chemical oxidation (Refs 6-8), namely: tetrahydrobenzopyrone (I), 2,2'-dioxy-5-5'-dimethylbiphenyl (II), as well as a triphenyl analogon (III), induced several investigators to consider the process of formation of these substances as proceeding over free radicals (Refs 5,8,10). All these products are colorless substances insoluble in water. The authors obtained products with these properties in the following ways: 1) By the action of light on p-cresol solutions in the presence of riboflavin (Ref 11); 2) By means of crystalline peroxidase of Messrs Light and Co Ltd; 3) By the action of potassium ferricyanide (Ref 6). In the oxidation of p-cresol, either by impurified or purified polyphenol oxidases from potato, no white or other insoluble

Card 1/3

On Free Radicals in the Peroxidase Oxidation and Photooxidation of p-Cresol

SOV/20-127-6-43/51

product was formed, but a red-brown substance soluble in water The "photoproduct" dissolves completely in slightly alkalized water. It precipitates again after acidification, Its solubility in acetone, benzene, methyl- and ethyl alcohol, ether, ethyl acetate, and chloroform, is very good. Neither the "peroxidase-" nor the "chemical" product dissolve completely in alkalized water, alcohol, or ether. They were both separated in 5%-NaON into a soluble and an insoluble fraction (Ref 6)... Table 1 shows the results of chromatographing (khromatografirovaniye) the photooxidation product. No other substances could be detected besides the one which forms spots with the values of R, (see Table 1). Also the bi-dimensional chromatography was not able to separate the said substance: its melting point was 74°. Further constants of this substance are indicated. Its molecular weight of 394.5 is similar to that of the quater-phenyl analogon which consists of 4 dehydrogenated p-cresol molecules (C7H70.C7H60)2, and has a molecular weight of 426. On the other hand, the calculations of the empirical

formula of the isolated product show that this substance con-

Card 2/3

On Free Radicals in the Peroxidase Oxidation and SOV/20-127-6-43/51

sists of (C<sub>6</sub>H<sub>6</sub>O)-units. 4 such units would yield a substance (C<sub>6</sub>H<sub>6</sub>O)<sub>4</sub> with a molecular weight of 376, which is also similar to the isolated substance. The products obtained by the authors are, however, not similar to the products already described and mentioned above, either by their melting point, or molecular weight, or elementary composition. As is known, the reactions of the free radicals are inhibited by polyphenols (Ref 17). This produced 0.005 mg/ml of hydroquinone in proportion to the said white product. The peroxidase exidation was of these problems are necessary. There are 1 table and 26 references, 6 of which are Soviet.

ASSOCIATION:

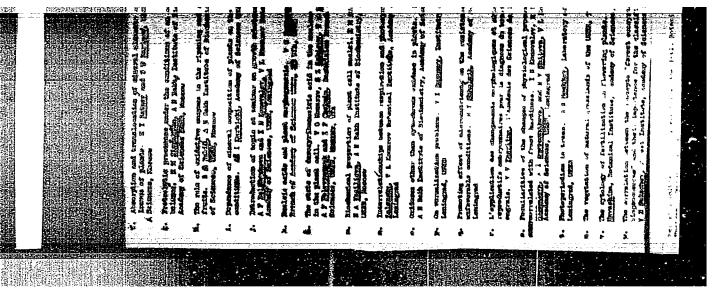
Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute of Biochemistry imeni A. N. Bakh of the Academy of Sciences. USSR)

PRESENTED:

May 12, 1959, by A. I. Oparin, Academician May 12, 1959

SUBMITTED:

Card 3/3



### KOLESNIKOV, P.A.

Hydrogen donors and acceptors in oxidation-reduction reactions proceeding with the participation of riboflavin. Dokl.AN SSSR 133 no.6:1462-1464 Ag '60.

(MIRA 13:8)

1. Institut biokhimii im. A.N. Bakha Akademii nauk SSSR. Predstavleno akad. A.I.Oparinym.
(RIBOFIAVIN) (OXIDATION-REDUCTION REACTION)

KOLESNIKOV, P.A. [Kolesnikov, P.O.]; EYNOR, L.O.

Study of oxidases containing metals in Chlorella. Ukr.bot.zhur.
18 no.4:46-51 '61. (MIRA 14:8)

1. Institut biokhimii im. A.N.Bakha AN SSSR i Institut botaniki
AN USSR. (Algae) (Oxidase)

PETROCHENKO, Yo.I.; KOLESNIKOV, P.A.

Phenol and ascorbic acid oxidation in wheat germination.
Biokhimita 26 no.4:701-707 J1-Ag ¹61. (MIRA 15:6)

1. Institute of Biochemistry, Academy of Sciences of the USSR,
Moscow. (PHENOLS) (WHEAT)
(ASCORBIC ACID)

PSHENOVA, K.V.; KOLFSHIKOV, P.A.

Lipoxidase in wheat seedlings. Biokhimiia 26 nc.6:1008-1012
N.D '61. (MIRA 15:6)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow. (LIPOXIDASE)
(WHEAT)

KOLESNIKOV, P.A.; ZORE, S.V.

Qualitative changes in the phenol composition of the coleoptiles of wheat during growth inhibition by light. Fiziol.rast. 9 no.4: 454-460 '62. (MIRA 15:9)

1. A.N.Bakh Biochemistry Institute, U.S.S.R. Academy of Sciences, Moscow.

(PHENOLS) (PLANTS, EFFECT OF LIGHT ON)

EYNOR, L.O.; KOLESNIKOV, P.A. [Kolesnikov, P.O.]

Participation of phosphopyridine nucleotides in the respiration of Chlorella. Ukr.bot.znur. 19 no.1:31-38 '62. (MIRA 15:4)

1. Institut botaniki AN USSR 1 Institut biokhimii AN SSSR im. A.M.Bakha. (Codehydrogenase) (Chlorella)

## KOLESNIKOV, P.A.; ZORE, S.V. Flavones and peroxidase oxidation of ascorbic acid. Biokhimia 27 no.1:48-54 Ja-F '62. (MIRA 15:5) 1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow. (ASCORBIC ACID) (PEROXIDASES) (FLAVONE)

## KOLESNIKOV, P.A.

Colorimetric methods for determining the activity of glycolic acid oxidase and glyoxalic acid reductase. Biokhimiia 27 no.2:193-196 Mr-Ap '62. (MIRA 15:8)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.
(COLORIMETRY) (GLYCOLIC OXIDASE) (GLYOXYLIC REDUCTASE)

## KOLESNIKOV, P.A.

Biological role of glyoxylic acid. Izv.AN SSSR.Ser.biol. 27 no.4:523-529 Jl-Ag '62. (MIRA 15:9)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.

(GLYOXYLIC ACID)

MUTUSKIN, A.A.; PSHENOVA, K.V.; KOLESNIKOV, P.A.

Biological role of the nonhemin iron of wheat germs. Dokl. AN SSSR
150 no.1:184-187 My '63. (MIRA 16:6)

1. Institut biokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom A.I.Oparinym. (Wheat germ) (Iron) (Hemins)

# KCLESNIKOV, P.A.; ZORE, S.V. Products of peroxidase oxidation and the photooxidation of ascorbic acid sensibilized by riboflavin in the presence of morin. Dokl. AN SSSR 150 no.38680-683 My 163. (MIRA 16:6) 1. Institut biokhimii im. A.N. Bakha AN SSSR. Predstavlano akademikom A.I. Oparinym. (Oxidation, Physiological) (Riboflavin) (Ascorbic acid)

KOLESWIKOY, F.A

ACCESSION NR: AP4012592

\$/0021/64/000/002/0238/0241

AUTHOR: Eynor, L. O.: Tupik, N. D.: Kolesny\*kov, P. O.

TITLE: Peroxidase of Chlorella

SOURCE: AN UKTRSR. Dopovidi, no. 2, 1964, 238-241

TOPIC TAGS: Chlorella, algae, green algae, enzyme, peroxidase, peroxidase oxidation, ascorbic acid, pyrogallol

ABSTRACT: The present work continues earlier investigations of the enzymes of Chlorella. Peroxidase was detected and readily extracted from acetone preparations' of Chlorella by a phosphate buffer. Ascorbic acid is pessibly the natural substrate of peroxidase and the latter is active in a wide range of pH values when ascorbic acid is used for that purpose, but peroxidase cannot be detected in the acid pH region when pyrogallol is used to determine it. This indicates a peculiarity, not explained, of peroxidase exidation in Chlorella cells. Orig. art. has 3 tables.

Card 1/2

ACCESSION NR: AF4012592		
ASSOCIATION: Insty*tut b Insty*tut biokhimiyi AN S	otaniky AN UkrRSR (Institute of Botany, RSR (Institute of Biochemistry, AN SSSR)	AN UKERSR);
SUEMITTED: 17Jan63	DATE ACQ: 03Mar64	ENCL: 00
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KOLESNIKOV, P.A.; ZORE, S.V.

Anthocyanins and flavones during the exidation of ascorbic acid in plants. Fiziol. rast. 11 no. 3:522-528 '64. (MIRA 17:7)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.

KOLESNIKOV, P.A.; EYNOR, L.O.

Ascorbic acid in oxidative metabolism in Chlorella. Bickhimiia 29 no.3: 402-407 My-Je 164. (MIRA 18:4)

1. In titut biokhimii imeni Bakha AN SSSR, Moskva i Institut botaniki AN UkrSSR, Kiyev.

PSHENOVA, K.V.; KOLESNIKOV, P.A.

Interaction of lipoperoxides with the components of some oxidation systems. Biokhimiia 30 no.5:1059-1064 S-0 \*65.

(MIRA 18:10)

1. Institut biokhimii imeni A.N.Bakha AN SSSR, Moskva.

PETROCHENKO, You I .; KOLESNIKOV, P. L.

Participation of phenols in the enzymetic oxidation of micotinamidadeninedinucleotide-H2. Dokl. AN SSSR 165 no.48940-942 D 165. (MIRA 18:12)

1. Institut biokhimii im. A.N.Bakha AN SESR. Submitted January 18, 1965.

## KOLESHIKOV, P.F. Simple means for scaring away hares. Zashch. rast. ot vred. i bol. 5 no.9:42 S '60. (NIRA 15:6) l. Glavnyy agronom Apsheronskogo plodosovkhoza, Krasnodarskogo kraya. (Krasnodar Territory-Hares) (Plants, Protection of)

KOLESNIKOV, P. G..

32447. Dubrov, V. D. Krupnoblochnyy montazh metallicheskogo karkasa gradirni pri pomoshchi machty. Elektr. stantsii; 1949, No. 10, s. 45-47.

SO: Letopis' Zhurnal'nykh Statey, Vol. 44